

**NoPig Metal-Loss Detection System
For
Non-Piggable Pipelines
FINO AG
DTRS56-02-BAA-0004
1st Quarterly Status Report
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In June and July 2003, field trials of the current NoPig System at three North American locations were organized and co-ordinated through Kiefner & Associates. Objectives of the field trials were

Step one (1), is to apply the technology to North American pipelines, and verify NoPig capabilities within stated specifications with regard to defect size and pipeline parameters.

Step two (2), is to apply the technology to larger diameter pipelines and to accurately detect metal-loss defects.

Field trials were held in Alberta, Canada on a 12" TransCanada Pipeline and in Wood River, Illinois on a 10" diameter Marathon Ashland Pipeline. Additionally, artificial defects were cut into 8", 16", 20" and 24" diameter pipes at a SoCal Gas facility in Los Angeles.

The information obtained from these trials and the data collected on numerous defects at FINO facilities has been used in modeling tasks to understand defect signatures. Purpose of these tasks is to allow for detection of smaller defects than presently possible and for the detection of such defects in larger diameter pipes.

Hardware adaptations have led to reduced system noise which has subsequently led to better evaluation results. These improvements will be implemented in the next field inspections.

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